

Product Overview

LV8111VB: 3-phase Brushless Motor Driver for a Polygon Mirror Motor

For complete documentation, see the data sheet.

The LV8111VB is a 3-phase brushless motor driver intended as a fully integrated driver for a laser beam printer (LBP) polygon mirror motor. This is a highly integrated solution which uses a DMOS output structure and employs synchronous rectification for low power consumption and a phase locked loop (PLL) speed control scheme to achieve extremely high rotational precision.

Features

- Direct PWM drive + synchronous rectification
- PLL speed control circuit
- Current limiter, constraint protection, thermal shutdown, under-voltage protection circuit
- 3-phase bipolar drive
- IO max1 = 2.5A
- IO max2 = 3.0A (t is within 0.1ms)
- Output current control circuit
- Phase lock detection output (with mask function)
- Circuit to switch slowing down method while stopped (Free run or Short-circuit brake)
- Constraint protection detection signal switching circuit (FG or LD)

For more features, see the data sheet

Benefits

- Low consumption
- High efficiency and Low jitter
- Safety design

Applications

- Polygon Mirror Motor

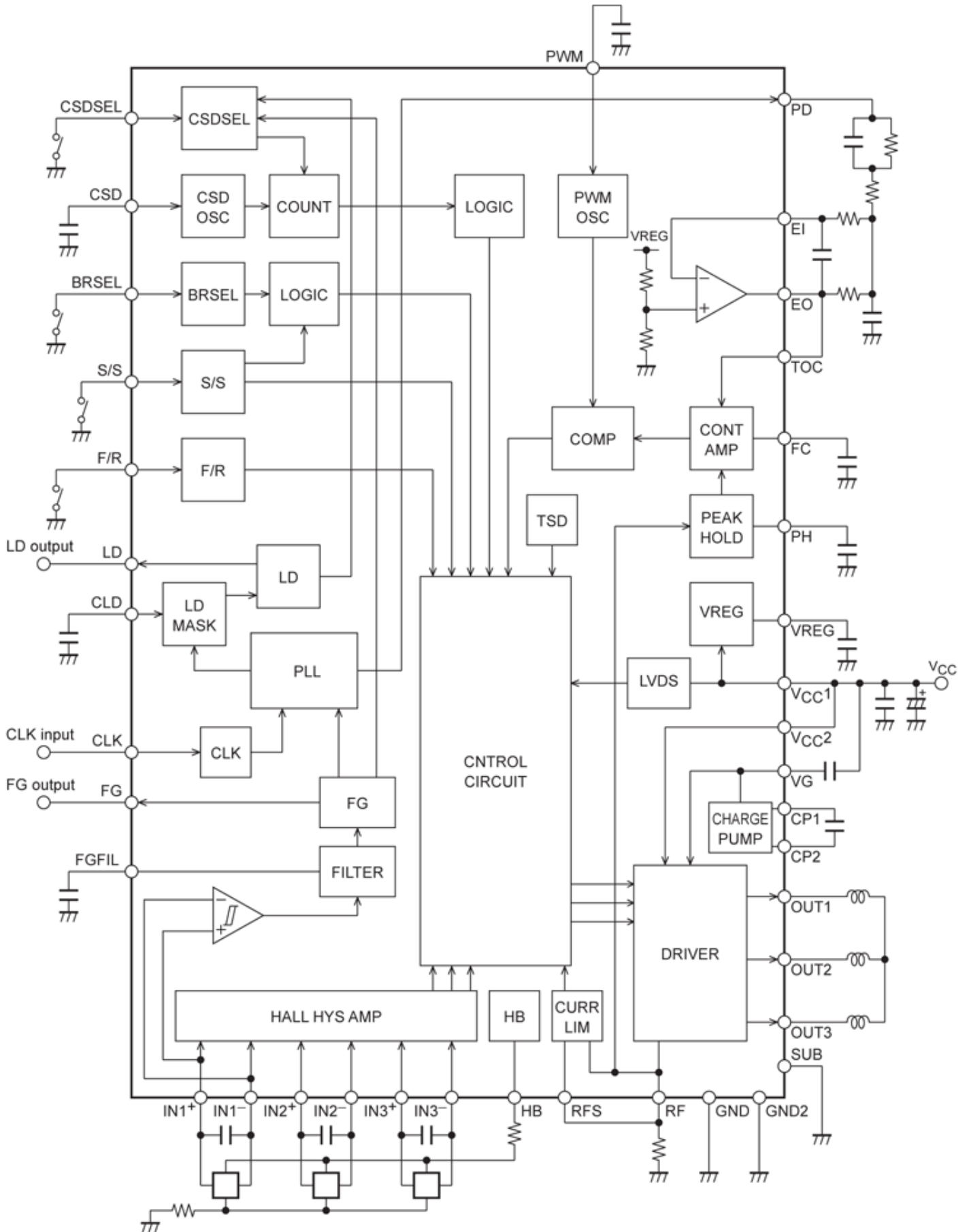
End Products

- Laser beam printer (LBP)
- Plain paper copier (PPC)
- Multi function printer (MFP)

Part Electrical Specifications

Product	Compliance	Status	Phase	V _M Min (V)	V _M Max (V)	V _{CC} Min (V)	V _{CC} Max (V)	I _O Max (A)	I _O Peak Max (A)	Control Type	Package Type
LV8111VB-AH	Pb-free	Active	3	10	37	10	37		3	Clock	SSOP-44K EP
	Halide free										

Application Diagram



For more information please contact your local sales support at www.onsemi.com.

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